

The HPI - 210, a silicon PIN photodiode mounted in durable, hermetically sealed TO - 18 metal can package, provides years of reliable performance even under demanding conditions such as use outdoors.

### FEATURES

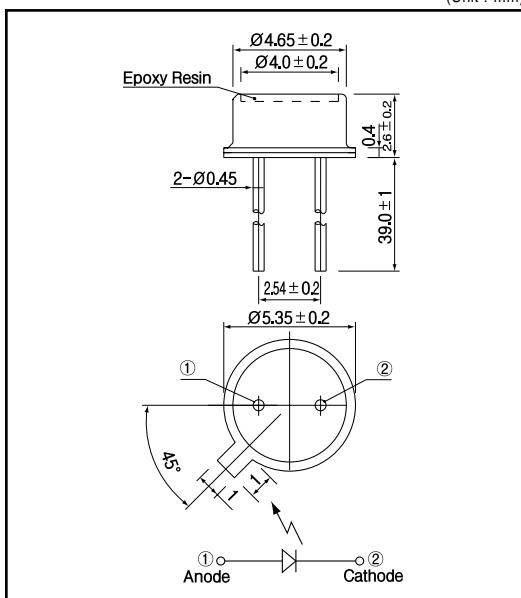
- High speed response
- Wide angular response  $\pm 65\text{deg.}$
- Low profile  $h=2.6\text{mm}$

### APPLICATIONS

- Optical fibers
- Optical Switches

### DIMENSIONS

(Unit : mm)



### MAXIMUM RATINGS

(Ta=25 °C)

Item	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	30	V
Operating temp.	T <sub>opr.</sub>	- 20 ~ +80	
Storage temp.	T <sub>stg.</sub>	- 20 ~ +80	
Soldering temp. <sup>1)</sup>	T <sub>sol.</sub>	240	

<sup>1)</sup>1. For MAX.5 seconds at the position of 2 mm from the package

### ELECTRO-OPTICAL CHARACTERISTICS

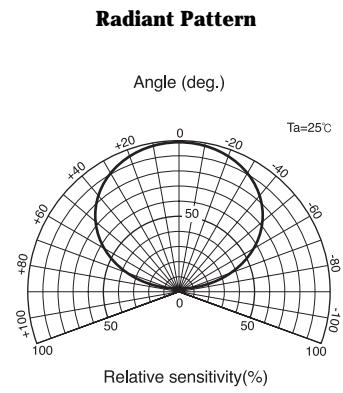
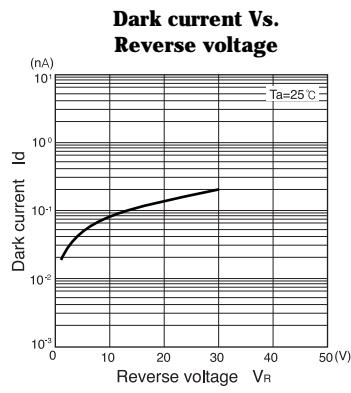
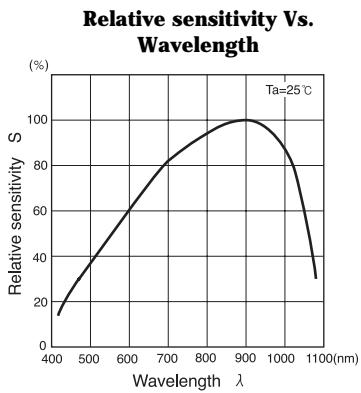
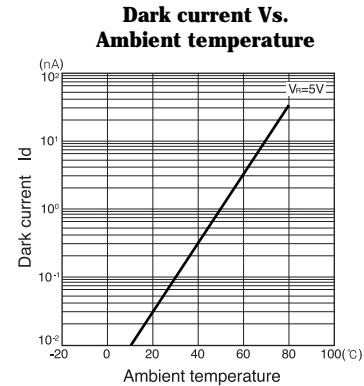
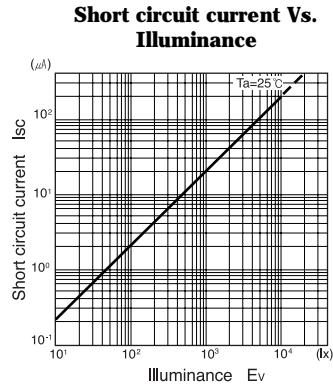
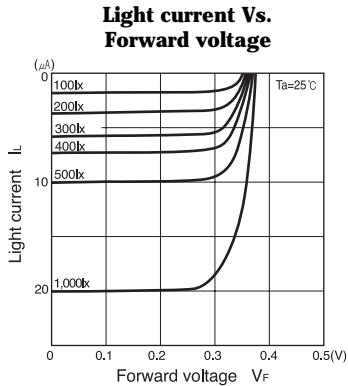
(Ta=25 °C)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Open circuit voltage	V <sub>oc</sub>	$E_v = 1,000 \text{lx}^{-2}$		0.35		V
Short circuit current	I <sub>sc</sub>	$E_v = 1,000 \text{lx}^{-2}$		20		μA
Curve factor	C.F.			—		—
Dark current	I <sub>d</sub>	$V_R = 20V$			10	nA
Capacitance	C <sub>t</sub>	$V_R = 3V, f = 1\text{MHz}$		16		pF
Temperature coefficient of V <sub>oc</sub>	t			—		mV/°C
Temperature coefficient of I <sub>sc</sub>	t			—		%/°C
Spectral sensitivity			450	1050		nm
Peak wavelength	λ			900		nm
Half angle				± 65		deg.

<sup>2)</sup>2. Color temp. = 2856K standard Tungsten lamp

## PIN Photodiode

HPI - 210



## Capacitance between terminals Vs. Reverse voltage

